



OIIPE

RAW SEQUENCE LISTING

DATE: 04/23/2002

PATENT APPLICATION: US/09/981,566A

TIME: 10:33:02

Input Set : A:\Cura-461.app

Output Set: N:\CRF3\04232002\I981566A.raw

```

3 <110> APPLICANT: Kekuda et al.
5 <120> TITLE OF INVENTION: Novel GPCR-like Proteins and Nucleic Acids Encoding
6   Same
8 <130> FILE REFERENCE: 21402-163
10 <140> CURRENT APPLICATION NUMBER: 09/981,566A
11 <141> CURRENT FILING DATE: 2001-10-16
13 <150> PRIOR APPLICATION NUMBER: 60/240,704
14 <151> PRIOR FILING DATE: 2000-10-16
16 <150> PRIOR APPLICATION NUMBER: 60/262,159
17 <151> PRIOR FILING DATE: 2001-01-17
19 <150> PRIOR APPLICATION NUMBER: 60/263,340
20 <151> PRIOR FILING DATE: 2001-01-22
22 <150> PRIOR APPLICATION NUMBER: 60/264,118
23 <151> PRIOR FILING DATE: 2001-01-25
25 <150> PRIOR APPLICATION NUMBER: 60/308,203
26 <151> PRIOR FILING DATE: 2001-07-27
28 <150> PRIOR APPLICATION NUMBER: 60/243,497
29 <151> PRIOR FILING DATE: 2000-10-26
31 <150> PRIOR APPLICATION NUMBER: 60/244,542
32 <151> PRIOR FILING DATE: 2000-10-31
34 <150> PRIOR APPLICATION NUMBER: 60/269,031
35 <151> PRIOR FILING DATE: 2001-02-15
37 <150> PRIOR APPLICATION NUMBER: 60/245,484
38 <151> PRIOR FILING DATE: 2000-11-03
40 <150> PRIOR APPLICATION NUMBER: 60/255,017
41 <151> PRIOR FILING DATE: 2000-12-12
43 <150> PRIOR APPLICATION NUMBER: 60/263,216
44 <151> PRIOR FILING DATE: 2001-01-22
46 <150> PRIOR APPLICATION NUMBER: 60/268,225
47 <151> PRIOR FILING DATE: 2001-02-12
49 <160> NUMBER OF SEQ ID NOS: 209
51 <170> SOFTWARE: PatentIn Ver. 2.1
53 <210> SEQ ID NO: 1
54 <211> LENGTH: 964
55 <212> TYPE: DNA
56 <213> ORGANISM: Homo sapiens
58 <400> SEQUENCE: 1
59 ggccccatac tgtggatcat ggcaaatctg agccagccct ccgaatttgt cctcttgggc 60
60 ttctctctct ttggtgagct gcaggccctt ctgtatggcc ccttctctcat gctttatctt 120
61 ctgccttca tgggaaacac catcatcata gttatgggtca tagctgacac ccacctacat 180
62 acacctatgt acttcttctt gggcaatttt tccctgctgg agatcttggg aacctatgact 240
63 gcagtgccca ggatgctctc agacctgttg gtccccca aagtcattac cttcactggc 300
64 tgcattgtcc agttctactt ccacttttcc ctgggggtcca cctccttctt catcttgaca 360

```

RAW SEQUENCE LISTING

DATE: 04/23/2002

PATENT APPLICATION: US/09/981,566A

TIME: 10:33:02

Input Set : A:\Cura-461.app

Output Set: N:\CRF3\04232002\I981566A.raw

```

65 gacatggccc ttgatcgctt tgtggccatc tgccacccac tgcgctatgg cactctgatg 420
66 agccgggcta tgtgtgtcca gctggctggg gctgcctggg cagctccttt cctagccatg 480
67 gtaccactg tctctcccag agctcatctt gattactgcc atggcgacgt catcaaccac 540
68 ttcttctgtg acaatgaacc tctctgcag ttgtcatgct ctgacactcg cctgttggaa 600
69 ttctgggact ttctgatggc ctgaccttt gtcctcagct ccttctggg gaccctcatc 660
70 tcctatggct acatagtac cactgtgctg cggatccct ctgccagcag ctgccagaag 720
71 gctttctcca ctgcgggtc tcacctcaca ctggtcttca tcggctacag tagtaccatc 780
72 tttctgtatg tcaggcctgg caaagctcac tctgtgcaag tcaggaagg cgtggccttg 840
73 gtgacttcag ttctaccccc ctttctcaat ccctttatcc ttacctctg caatcagaca 900
74 gttaaaacag tgctacaggg gcagatgcag aggctgaaag gcctttgcaa ggcacaatga 960
75 tgag 964
78 <210> SEQ ID NO: 2
79 <211> LENGTH: 313
80 <212> TYPE: PRT
81 <213> ORGANISM: Homo sapiens
83 <400> SEQUENCE: 2
84 Met Ala Asn Leu Ser Gln Pro Ser Glu Phe Val Leu Leu Gly Phe Ser
85 1 5 10 15
87 Ser Phe Gly Glu Leu Gln Ala Leu Leu Tyr Gly Pro Phe Leu Met Leu
88 20 25 30
90 Tyr Leu Leu Ala Phe Met Gly Asn Thr Ile Ile Ile Val Met Val Ile
91 35 40 45
93 Ala Asp Thr His Leu His Thr Pro Met Tyr Phe Phe Leu Gly Asn Phe
94 50 55 60
96 Ser Leu Leu Glu Ile Leu Val Thr Met Thr Ala Val Pro Arg Met Leu
97 65 70 75 80
99 Ser Asp Leu Leu Val Pro His Lys Val Ile Thr Phe Thr Gly Cys Met
100 85 90 95
102 Val Gln Phe Tyr Phe His Phe Ser Leu Gly Ser Thr Ser Phe Leu Ile
103 100 105 110
105 Leu Thr Asp Met Ala Leu Asp Arg Phe Val Ala Ile Cys His Pro Leu
106 115 120 125
108 Arg Tyr Gly Thr Leu Met Ser Arg Ala Met Cys Val Gln Leu Ala Gly
109 130 135 140
111 Ala Ala Trp Ala Ala Pro Phe Leu Ala Met Val Pro Thr Val Leu Ser
112 145 150 155 160
114 Arg Ala His Leu Asp Tyr Cys His Gly Asp Val Ile Asn His Phe Phe
115 165 170 175
117 Cys Asp Asn Glu Pro Leu Leu Gln Leu Ser Cys Ser Asp Thr Arg Leu
118 180 185 190
120 Leu Glu Phe Trp Asp Phe Leu Met Ala Leu Thr Phe Val Leu Ser Ser
121 195 200 205
123 Phe Leu Val Thr Leu Ile Ser Tyr Gly Tyr Ile Val Thr Thr Val Leu
124 210 215 220
126 Arg Ile Pro Ser Ala Ser Ser Cys Gln Lys Ala Phe Ser Thr Cys Gly
127 225 230 235 240
129 Ser His Leu Thr Leu Val Phe Ile Gly Tyr Ser Ser Thr Ile Phe Leu
130 245 250 255
132 Tyr Val Arg Pro Gly Lys Ala His Ser Val Gln Val Arg Lys Val Val

```

RAW SEQUENCE LISTING

DATE: 04/23/2002

PATENT APPLICATION: US/09/981,566A

TIME: 10:33:02

Input Set : A:\Cura-461.app

Output Set: N:\CRF3\04232002\I981566A.raw

```

133          260          265          270
135 Ala Leu Val Thr Ser Val Leu Thr Pro Phe Leu Asn Pro Phe Ile Leu
136          275          280          285
138 Thr Phe Cys Asn Gln Thr Val Lys Thr Val Leu Gln Gly Gln Met Gln
139          290          295          300
141 Arg Leu Lys Gly Leu Cys Lys Ala Gln
142 305          310
145 <210> SEQ ID NO: 3
146 <211> LENGTH: 971
147 <212> TYPE: DNA
148 <213> ORGANISM: Homo sapiens
150 <400> SEQUENCE: 3
151 cccatactg tggatcatgg caaggcacaa tgatgagcca gccctccgaa tttgtcctet 60
152 tgggcttctc ctcttttggg gagctgcagg ccttctgtga tggccccttc ctcatgcttt 120
153 atcttctcgc ctcatggga aacaccatca tcatagtatt ggtcatagct gacaccacc 180
154 tacatacacc catgtacttc ttctgtggca atttttcctt gctggagatc ttggtaacca 240
155 tgactgcagt gcccaggatg ctctcagacc tgttgggtccc ccacaaagtc attaccttca 300
156 ctggctgcat ggtccagttc tacttccact ttctcctggg gtccacctcc ttctctatcc 360
157 tgacagacat ggcccttgat cgctttgtgg ccacttgcca cccactgcgc tatggcactc 420
158 tgatgagccg ggctatgtgt gtccagctgg ctggggctgc ctgggcagct cctttcctag 480
159 ccatggtacc cactgtcttc tcccgagctc atcttgatta ctgccaatggc gacgtcatca 540
160 accacttctt ctgtgacaat gaacctctcc tgcagttgtc atgctctgac actgcctgt 600
161 tggaattctg ggactttctg atggccatga cctttgtcct cagctccttc ctggtgacct 660
162 tcatctcata tggctacata gtgaccactg tgctgcggat cccctctgcc agcagctgcc 720
163 agaaggcttt ctccacttgc ggtctcacc tcacactggg ctctcatcggc tacagtagta 780
164 ccatctttct gtatgtcagg cctggcaaag ctcaactctg gcaagtcagg aaggctcgtg 840
165 ccttggtgac ttcagttctc accccctttc tcaatccctt tatccttacc ttctgcaatc 900
166 agacagttaa aacagtgtca caggggcaga tgcagaggct gaaaggcctt tgcaaggcac 960
167 aatgatgagc c 971
170 <210> SEQ ID NO: 4
171 <211> LENGTH: 311
172 <212> TYPE: PRT
173 <213> ORGANISM: Homo sapiens
175 <400> SEQUENCE: 4
176 Met Met Ser Gln Pro Ser Glu Phe Val Leu Leu Gly Phe Ser Ser Phe
177 1 5 10 15
179 Gly Glu Leu Gln Ala Leu Leu Tyr Gly Pro Phe Leu Met Leu Tyr Leu
180 20 25 30
182 Leu Ala Phe Met Gly Asn Thr Ile Ile Ile Val Met Val Ile Ala Asp
183 35 40 45
185 Thr His Leu His Thr Pro Met Tyr Phe Phe Leu Gly Asn Phe Ser Leu
186 50 55 60
188 Leu Glu Ile Leu Val Thr Met Thr Ala Val Pro Arg Met Leu Ser Asp
189 65 70 75 80
191 Leu Leu Val Pro His Lys Val Ile Thr Phe Thr Gly Cys Met Val Gln
192 85 90 95
194 Phe Tyr Phe His Phe Ser Leu Gly Ser Thr Ser Phe Leu Ile Leu Thr
195 100 105 110
197 Asp Met Ala Leu Asp Arg Phe Val Ala Ile Cys His Pro Leu Arg Tyr

```

RAW SEQUENCE LISTING

DATE: 04/23/2002

PATENT APPLICATION: US/09/981,566A

TIME: 10:33:02

Input Set : A:\Cura-461.app

Output Set: N:\CRF3\04232002\I981566A.raw

```

198          115          120          125
200 Gly Thr Leu Met Ser Arg Ala Met Cys Val Gln Leu Ala Gly Ala Ala
201          130          135          140
203 Trp Ala Ala Pro Phe Leu Ala Met Val Pro Thr Val Leu Ser Arg Ala
204 145          150          155          160
206 His Leu Asp Tyr Cys His Gly Asp Val Ile Asn His Phe Phe Cys Asp
207          165          170          175
209 Asn Glu Pro Leu Leu Gln Leu Ser Cys Ser Asp Thr Arg Leu Leu Glu
210          180          185          190
212 Phe Trp Asp Phe Leu Met Ala Met Thr Phe Val Leu Ser Ser Phe Leu
213          195          200          205
215 Val Thr Leu Ile Ser Tyr Gly Tyr Ile Val Thr Thr Val Leu Arg Ile
216          210          215          220
218 Pro Ser Ala Ser Ser Cys Gln Lys Ala Phe Ser Thr Cys Gly Ser His
219 225          230          235          240
221 Leu Thr Leu Val Phe Ile Gly Tyr Ser Ser Thr Ile Phe Leu Tyr Val
222          245          250          255
224 Arg Pro Gly Lys Ala His Ser Val Gln Val Arg Lys Val Val Ala Leu
225          260          265          270
227 Val Thr Ser Val Leu Thr Pro Phe Leu Asn Pro Phe Ile Leu Thr Phe
228          275          280          285
230 Cys Asn Gln Thr Val Lys Thr Val Leu Gln Gly Gln Met Gln Arg Leu
231          290          295          300
233 Lys Gly Leu Cys Lys Ala Gln
234 305          310
237 <210> SEQ ID NO: 5
238 <211> LENGTH: 971
239 <212> TYPE: DNA
240 <213> ORGANISM: Homo sapiens
242 <400> SEQUENCE: 5
243 ccccatactg tggatcatgg caaggcacaa tgatgagcca gccctccgaa tttgtcctct 60
244 tgggcttctc ctcttttggg gagctgcagg cccttctgta tggccccctc ctcatgcttt 120
245 atcttctcgc cttcatggga aacaccatca tcatagttat ggtcatagct gacacccacc 180
246 tacatacacc catgtacttc ttcttgggca atttttccct gctggagatc ttggtaacca 240
247 tgactgcagt gcccaggatg ctctcagacc tgttgggtccc ccacaaagtc attaccttca 300
248 ctggctgcat ggtccagttc tacttccact ttccctggg gtccacctcc ttctcatcc 360
249 tgacagacat ggcccttgat cgctttgtgg ccatctgccca cccactgcgc tatggcactc 420
250 tgatgagccg ggctatgtgt gtccagctgg ctggggctgc ctgggcagct cctttcctag 480
251 ccatggtacc cactgtcttc tcccagatc atcttgatta ctgcatggc gacgtcatca 540
252 accacttctt ctgtgacaat gaacctctcc tgcagttgtc atgctctgac actcgctgt 600
253 tgggaattctg ggactttctg atggccttga cctttgtcct cagctccttc ctggtgacct 660
254 tcactctcta tggctacata gtgaccactg tgctgcggat cccctctgcc agcagctgcc 720
255 agaaggcttt ctccacttgc gggctctcacc tcacactggt ctccatggc tacagtagta 780
256 cacactttct gtatgtcagg cctggcaaaag ctcaactctg gcaagtcagg aaggctcgtg 840
257 ccttgggtgac ttcatgtctc accccctttc tcaatccctt tatccttacc ttctgcaatc 900
258 agacagttaa aacagtgcct caggggacaga tgcagaggct gaaaggcctt tgcaaggcac 960
259 aatgatgagc c
262 <210> SEQ ID NO: 6
263 <211> LENGTH: 311

```

RAW SEQUENCE LISTING

DATE: 04/23/2002

PATENT APPLICATION: US/09/981,566A

TIME: 10:33:02

Input Set : A:\Cura-461.app

Output Set: N:\CRF3\04232002\I981566A.raw

```

264 <212> TYPE: PRT
265 <213> ORGANISM: Homo sapiens
267 <400> SEQUENCE: 6
268 Met Met Ser Gln Pro Ser Glu Phe Val Leu Leu Gly Phe Ser Ser Phe
269 1 5 10 15
271 Gly Glu Leu Gln Ala Leu Leu Tyr Gly Pro Phe Leu Met Leu Tyr Leu
272 20 25 30
274 Leu Ala Phe Met Gly Asn Thr Ile Ile Val Met Val Ile Ala Asp
275 35 40 45
277 Thr His Leu His Thr Pro Met Tyr Phe Phe Leu Gly Asn Phe Ser Leu
278 50 55 60
280 Leu Glu Ile Leu Val Thr Met Thr Ala Val Pro Arg Met Leu Ser Asp
281 65 70 75 80
283 Leu Leu Val Pro His Lys Val Ile Thr Phe Thr Gly Cys Met Val Gln
284 85 90 95
286 Phe Tyr Phe His Phe Ser Leu Gly Ser Thr Ser Phe Leu Ile Leu Thr
287 100 105 110
289 Asp Met Ala Leu Asp Arg Phe Val Ala Ile Cys His Pro Leu Arg Tyr
290 115 120 125
292 Gly Thr Leu Met Ser Arg Ala Met Cys Val Gln Leu Ala Gly Ala Ala
293 130 135 140
295 Trp Ala Ala Pro Phe Leu Ala Met Val Pro Thr Val Leu Ser Arg Ala
296 145 150 155 160
298 His Leu Asp Tyr Cys His Gly Asp Val Ile Asn His Phe Phe Cys Asp
299 165 170 175
301 Asn Glu Pro Leu Leu Gln Leu Ser Cys Ser Asp Thr Arg Leu Leu Glu
302 180 185 190
304 Phe Trp Asp Phe Leu Met Ala Leu Thr Phe Val Leu Ser Ser Phe Leu
305 195 200 205
307 Val Thr Leu Ile Ser Tyr Gly Tyr Ile Val Thr Thr Val Leu Arg Ile
308 210 215 220
310 Pro Ser Ala Ser Ser Cys Gln Lys Ala Phe Ser Thr Cys Gly Ser His
311 225 230 235 240
313 Leu Thr Leu Val Phe Ile Gly Tyr Ser Ser Thr Ile Phe Leu Tyr Val
314 245 250 255
316 Arg Pro Gly Lys Ala His Ser Val Gln Val Arg Lys Val Val Ala Leu
317 260 265 270
319 Val Thr Ser Val Leu Thr Pro Phe Leu Asn Pro Phe Ile Leu Thr Phe
320 275 280 285
322 Cys Asn Gln Thr Val Lys Thr Val Leu Gln Gly Gln Met Gln Arg Leu
323 290 295 300
325 Lys Gly Leu Cys Lys Ala Gln
326 305 310
329 <210> SEQ ID NO: 7
330 <211> LENGTH: 992
331 <212> TYPE: DNA
332 <213> ORGANISM: Homo sapiens
334 <400> SEQUENCE: 7
335 ctgtcttttg tttctcttgc atgcagggcc ccatactgtg gatcatggca aatctgagcc 60

```

Use of N or U as an ambiguous base has been detected in the
Sequence Listing. Review the Sequence Listing
to ensure a corresponding explanation is present
in the <210> to <223> fields of each sequence
using n or x for N/A.

VERIFICATION SUMMARY

DATE: 04/23/2002

PATENT APPLICATION: US/09/981,566A

TIME: 10:33:03

Input Set : A:\Cura-461.app

Output Set: N:\CRF3\04232002\I981566A.raw

L:1092 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19

L:1095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19

L:3824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65